

This Environmental Cleanup Newsletter is the eighth in a series of quarterly newsletters describing the Navy's environmental cleanup program at Hunters Point Shipyard. Each newsletter includes articles and information updating various environmental cleanup activities, project progress, and key milestones. The Navy contracts with a local business to distribute these newsletters to individuals on the current mailing list.

The Restoration Advisory Board Seeks New Members

Would you like to help guide the Navy in their cleanup of Hunters Point Shipyard? The Restoration Advisory Board (RAB), which is composed of representatives from the community, regulatory agencies, and the Navy, recently approved adding seven new seats to the Board. RAB members meet monthly to review, comment, and make recommendations on matters pertaining to the restoration and environmental cleanup of the Shipyard. Get involved!

See page 3 for details.

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Draft Historical Radiological Assessment Issued

The Navy released the draft Historical Radiological Assessment (HRA) Volume II for Hunters Point Naval Shipyard (HPS) on March 29, 2002. This document presents the general history of the use, handling, and disposal of radioactive materials and machines that produce ionizing radiation that were used at the Shipyard from the start of Navy activities at the site in 1940 throughout the operational history of the Shipyard. The draft HRA confirms that, while there are isolated areas of residual radiological contamination at Hunters Point Shipyard, exposure to radiological materials at the Shipyard poses no adverse risk to the environment or people at the Shipyard or to nearby residents.

The draft HRA was developed following the guidelines of the "Multi-Agency Radiation Survey and Site Investigation Manual" (MARSSIM), a consensus guide of the Department of Defense, Nuclear Regulatory Commission, U.S. EPA, and Department of Energy that has been adopted by the State of California. To prepare the draft HRA, thousands of pages of historical documentation were reviewed, former Shipyard employees were interviewed, and field investigations were conducted. Also, the

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Environmental scientists compare Geiger counter measurements during radiological investigations at Hunters Point Shipyard.

Navy performed a structure-by-structure review of the historical use of general radioactive material to determine which areas were impacted or were not impacted by radiological operations.

Historical records indicate that radiological operations fell into four categories: general Naval shipyard operations; Naval Radiological Defense Laboratory (NRDL) operations; decontamination of ships associated with atomic weapons testing; and the former Triple A Machine Shop. Historical documents also provide evidence that the Navy complied with all federal regulatory requirements in effect at the time of use, storage, and disposal of radioactive materials during various operational activities at Hunters Point Shipyard. The draft HRA also documents the ongoing effort to review each area at the Shipyard where radioactive material may have been used to ensure that all buildings, structures, and open areas meet current U.S. Environmental Protection Agency and the State of California requirements.

To supplement and confirm historical information, the Navy is reviewing and surveying each area classified as "impacted." The Parcel B reviews and surveys have been completed and are included in the draft HRA. Additional information will be included as the reviews and surveys are finalized. This effort will continue until all "impacted" areas have been determined to meet today's release standards.

Draft HRA Summary of Findings:

- No elevated levels of airborne radioactivity were detected during air monitoring at Hunters Point Shipyard.
- Hunters Point Shipyard facilities used by the Navy for radiological activities from 1940 throughout the operational history of NRDL were properly investigated and cleaned, if necessary, to meet the accepted standards of the time.
- More than 65 buildings, structures, and open areas were classified as "impacted." This term means these areas have a possibility of containing residual radioactivity in excess of background levels at Hunters Point Shipyard.
- Isolated areas of contaminated soils still exist, such as the bay fill area along the southern shoreline of Parcel E (Installation Restoration Site 2) where radioluminescent dials and gauges containing radium-226 were disposed. These areas are being surveyed and remediated as necessary to meet today's release standards.
- Preliminary results indicate that slightly elevated levels of radiation have been detected in groundwater in Parcels D and E in areas currently undergoing radiological investigation. More information will be available in September 2002.
- No complete pathways for the migration of radioactive materials have been identified.

The 200-page draft HRA document has been provided to environmental regulators for review and is available to the general public at the two information repository sites: The Bayview/Anna E. Waden Branch Library, 5073 3rd Street, San Francisco, and at the San Francisco Main Public Library, 100 Larkin Street. It is also available online at <http://hunterspoint-hra.waterware.com/> or on CD-ROM from the Navy Environmental Public Affairs Officer, Mr. Lee Saunders, (619) 532-3100.

Installation Restoration Program Process

Preliminary Assessment/ Site Inspection (PA/SI)	Remedial Investigation (RI)	Feasibility Study (FS)	Proposed Plan/Public Comment Period	Record of Decision (ROD)/ Responsiveness Summary	Remedial Design	Remedial Action	Property Transfer and Reuse
The PA/SI results in the discovery and verification of potential sites.	The RI identifies and confirms the sources and areas of soil and groundwater contamination.	The FS identifies remedial alternatives for soil and groundwater cleanup.	The public has the opportunity to comment on the preferred remedy and other proposed alternatives.	The selected remedial alternative and responses to public comments are documented in the ROD.	Detailed specifications for the selected remedies are developed.	A qualified contractor begins the closure actions according to specifications.	A Finding of Suitability to Transfer (FOST) is prepared.

Note: The Navy's IR Program is consistent with the guidelines outlined in the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). Interim actions or Removal Actions, may be performed at sites at any point in this process. The Navy meets on an ongoing basis with the BRAC [Base Realignment and Closure] Cleanup Team (BCT) to determine ways to accelerate the cleanup of Hunters Point Shipyard.

Parcel A FOST Issued

The Navy recently revised its evaluation of the environmental condition of Parcel A. The findings are presented in Revision 2 of the Parcel A Finding of Suitability to Transfer (FOST) report published on March 26, 2002. The purpose of the FOST is to: (1) summarize environmental investigations and surveys at Parcel A; (2) use the findings of those investigations to evaluate the current environmental conditions of Parcel A; and (3) determine, based on the current environmental condition, if the property is suitable for transfer from the Navy to the City of San Francisco. The original FOST was completed in February 2000 and was first revised in January 2001. Since that time, the Navy has completed a number of compliance projects. In addition, the Parcel A boundary has been slightly revised. Parcel A now includes areas that were part of Parcels C and D. Also, a small part of Parcel A was shifted to Parcel B. As a result, the Navy completed Revision 2 of the FOST to include this updated information.

BUILDING 816

Building 816 housed a high voltage ion accelerator for use by the NRDL. Radioactive material used in the building consisted of tritium (an isotope of hydrogen) targets used to produce neutrons with the accelerator. In 1969, the building was closed and the equipment was removed and sent to a Navy facility in Indiana for decontamination. After the building was steam cleaned to remove residual tritium contamination, analysis of swipe samples found no residual contamination. Subsequent surveys and swipe samples in 1979, 1992, and 2001 found no residual contamination.

In 2001, the California Department of Health Services (DHS) reviewed the history of Building 816, including results of surveys and swipe samples, and cleared the building and the surrounding area for unrestricted reuse. Revision 2 of the FOST summarizes the chronology and findings of the radiological investigations and documents the formal clearance by DHS.

BOUNDARY REVISIONS

The boundary was changed in two places:

1. The southeast portion of Parcel A was expanded to include a portion of Fisher Avenue that was previously part of Parcels C and D. These changes were made to accommodate the City's redevelopment plan.
2. A small area in the northern part of Parcel A was moved to Parcel B. This was done because of its proximity to areas in Parcel B that underwent cleanup from 1998-2001. The Navy recently discovered (based on updated field information) that one Parcel B excavation extended into Parcel A and another excavation was close to the boundary of Parcel A. The boundary was modified to: (1) move both excavations completely into Parcel B; and (2) include a buffer zone at least 20 feet wide between each excavation and the Parcel A boundary.

The FOST evaluated all information collected during environmental investigations and surveys at Parcel A. Those investigations and surveys found no contamination at Parcel A that poses a potential threat to human health and the environment. As a result, the FOST concludes that Parcel A is suitable for transfer to the City of San Francisco.

The FOST has been submitted to environmental regulators for review and is available to the general public at the two information repository sites: The Bayview/Anna E. Waden Branch Library, 5073 3rd Street, San Francisco, and at the San Francisco Main Public Library, 100 Larkin Street. It is also available on CD-ROM from the Navy Environmental Public Affairs, Officer Mr. Lee Saunders, (619) 532-3100.

RAB MEETING INFORMATION



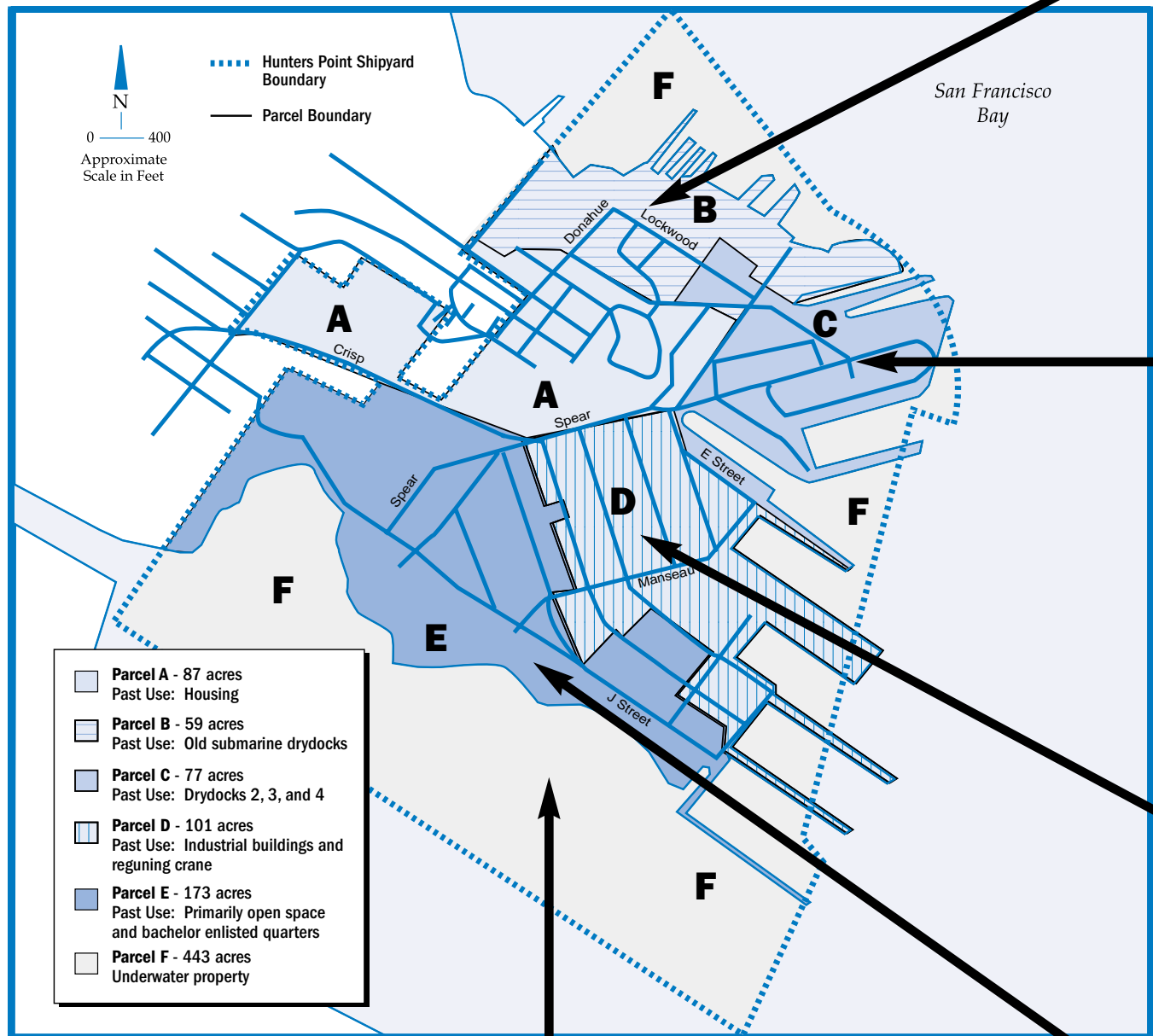
Hunters Point Shipyard RAB members and the interested public have been regularly informed of the cleanup work underway at the Shipyard. Approximately 60 people regularly attend and participate at the monthly RAB meetings.

RAB meetings are typically held from 6:00 to 8:00 p.m., in the fourth week of each month at the Bayview Police Station Community Room, although the schedule is subject to change. For current schedule information, please contact Mr. Keith Forman, Base Realignment and Closure Environmental Coordinator and RAB Navy Co-chair.

If you are interested in becoming a RAB member, please indicate your preference on the Hunters Point Shipyard Mailing List Update Form – see the back page. We will mail you an application promptly. The application is also available online at the Navy's web page; <http://www.efds.w.navy.mil/Environmental/HuntersPoint.htm>

Parcel-by-Parcel Status Update—January-March 2002

Hunters Point Shipyard is divided into six parcels (Parcels A through F) to more effectively manage the cleanup effort and efficiently transfer the property to the City of San Francisco (See the figure on page 4). Although chemical contamination resulting from the Shipyard activities varies from site-to-site on each parcel, chemical contaminants at a site may include compounds present in industrial solvents, PCBs, pesticides, gasoline, diesel, motor oil, and/or metals. Following are brief descriptions of environmental investigation/cleanup accomplishments that occurred during January-March 2002 and a look ahead at upcoming activities.



Parcel F January-March 2002 Activities

- Continued preparation of draft validation study report.

What's Next?

- Prepare and submit draft validation study report.

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Parcel B January-March 2002 Activities

- Prepared and submitted the draft revised Remedial Action Monitoring Plan.
- Prepared and submitted the Final July-September 2001 quarterly groundwater monitoring report.
- Installed new monitoring wells in Installation Restoration (IR) Site-26 for groundwater monitoring program.
- Completed investigation and excavation along industrial drain line along Lockwood Street.
- Continued to operate soil vapor extraction (SVE) system and to evaluate SVE performance data for the Phase II SVE treatability study at Building 123.
- Conducted 9th quarterly groundwater monitoring event.
- Completed Phase V radiological investigations of all “impacted” areas. No radiological contamination was found.
- Continued excavation and removal of soil stockpiles.

What's Next?

- Prepare and submit the Final Land Use Controls Implementation and Certification Plan (LUCICP).
- Prepare and submit the Final Groundwater Evaluation Technical Memorandum.
- Prepare and submit the draft final revised Remedial Action Monitoring Plan.
- Prepare the draft final Parcel B Explanation of Significant Differences (ESD) 2002.
- Continue field activities associated with the Parcel B Corrective Action Plan.
- Submit results of Phase V radiological investigations to U.S. EPA and California Department of Health Services for review.
- Continue removal of excavated stockpiles.

Parcel C January-March 2002 Activities

- Collected post-injection groundwater samples where potassium permanganate injection treatability study took place.
- Completed delineation sampling and continued excavation for soil removal actions.
- Completed fuel and steam line inspections and removals for pipeline removal actions.
- Continued field activities on the TPH CAP work.
- Prepared and submitted draft Field Sampling Plan (FSP) and Quality Assurance Project Plan (QAPP) addenda for the Phase III groundwater data gaps investigation.
- Performed water level monitoring as part of Phase III groundwater data gaps investigation.
- Evaluated SVE performance data for the Phase II SVE treatability study at volatile organic contaminant (VOC) areas (study also includes portions of Parcels B and E).
- Prepared and submitted draft Removal Action Closeout Report for soil and pipeline removal actions.
- Continued Phase V initial radiation screening surveys of radiologically “impacted” areas.

What's Next?

- Continue evaluation of performance data for Phase II SVE treatability study at VOC areas.
- Complete excavation activities for the soil removal actions.
- Continue field sampling activities associated with TPH CAP.
- Resume chemical injection for chemical oxidation treatability study at VOC groundwater areas pending approval of work plan addendum.
- Prepare and submit draft closeout report for Dry Dock 4 removal action.
- Prepare and submit revised FSP/QAPP addenda for the Phase III groundwater data gaps investigation.
- Begin field work associated with the Phase III groundwater data gaps investigation.
- Continue Phase V radiation removal actions and final status surveys.

Parcel D January-March 2002 Activities

- Prepared and submitted draft FSP/QAPP addenda for the Phase III groundwater data gaps investigation.
- Continued radiation removal action activities near Building 364.
- Prepared and submitted the draft revised feasibility study.
- Prepared and submitted revised information package (with response to comments) for Phase II groundwater data gaps investigation.
- Completed Phase V initial radiation screening surveys of “impacted” areas.

What's Next?

- Continue radiation removal action and final status surveys.
- Continue field sampling activities associated with TPH CAP.
- Prepare and submit revised FSP/QAPP addenda for the Phase III groundwater data gaps investigation.
- Begin field work associated with the Phase III groundwater data gaps investigation.

Parcel E January-March 2002 Activities

- Prepared and submitted the draft final non-standard data gaps FSP/QAPP.
- Evaluated SVE performance data for Phase II SVE treatability study at Building 406 (limited field activities in Parcel E).
- Prepared and submitted the draft final standard data gaps FSP/QAPP.
- Prepared and submitted draft FSP/QAPP addenda for the Phase III groundwater data gaps investigation.
- Performed water level monitoring as part of Phase III groundwater data gaps investigation.
- Began field work for non-standard data gaps investigation.
- Evaluated SVE performance data for Phase II SVE treatability study at Building 406 (limited field activities in Parcel E).
- Continued Phase V initial radiation screening surveys of radiologically “impacted” areas.

What's Next?

- Continue field work associated with the non-standard data gaps investigation.
- Continue evaluation of performance data for Phase II SVE treatability study at Building 406.
- Continue Phase V radiation removal actions and final status surveys.
- Continue field sampling activities associated with TPH CAP.
- Prepare and submit revised FSP/QAPP addenda for the Phase III groundwater data gaps investigation.
- Initiate radiation screening surveys in waste packaging and fill areas.
- Begin field work associated with the standard data gaps investigation.
- Begin field work associated with the Phase III groundwater data gaps investigation.

RAB Bylaws Revised to Add Seven New Community Members

The Hunters Point Shipyard Restoration Advisory Board (RAB) approved revisions to the operating bylaws at the March 28, 2002 RAB meeting. The new Hunters Point Shipyard RAB Bylaws, dated 3/06/02, opens the door for a larger and more diverse RAB. The revisions add seven more seats to the board, bringing the total to 30 members from the community. The revisions also simplify the affiliation criteria of each member, helping to ensure more balanced representation. The new bylaws also clarify the role and responsibility of the Community Co-chair position. They clearly establish a single RAB Community Co-chair, thereby streamlining communication between the Navy and the community. The new operating bylaws take effect immediately and replace the previous bylaws, dated 3/14/01.



Work on the initial revisions began in mid-summer 2001. The RAB Membership & Bylaws Subcommittee held numerous meetings and heard from dozens of individuals while drafting the revisions. Mr. Keith Tisdell is the leader of the Membership & Bylaws Subcommittee.

A new RAB Membership Application is being developed to reflect the new guidelines and selection criteria for RAB members. Membership applications will be available on-line as soon as the subcommittee has prepared the application. Individuals who have already completed and submitted an old membership application are requested to complete one of the new, revised applications.

Both the Hunters Point Shipyard RAB Bylaws and RAB Membership Applications can be viewed and downloaded from the Navy's web page; <http://www.efds.w.navy.mil/Environmental/HuntersPoint.htm> or see the back page to contact Mr. Keith Forman, RAB Navy Co-chair, for more information.

Hunters Point Shipyard Information Repositories

The Navy maintains two Information Repositories for Hunters Point Shipyard that contain project documents and other reference materials. The Main Library in downtown San Francisco contains a nearly complete record of all the documents related to the cleanup of Hunters Point Shipyard. The Bayview/Anna E. Waden Branch Library contains a smaller collection of documents and copies of the major investigation reports for each parcel as well as documents related to more current activities. Public Information Material binders, containing archives of RAB meeting minutes and handouts, are available at both libraries.

The Navy encourages you to visit the libraries and review the documents prepared for Hunters Point Shipyard to gain a more complete understanding of the cleanup investigations.

CITY OF SAN FRANCISCO MAIN LIBRARY

Science, Technical, and Government Documents Room
100 Larkin Street
San Francisco, CA 94102
(415) 557-4500 5075

BAYVIEW/ANNA E. WADEN BRANCH LIBRARY

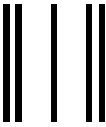
5075 Third Street
San Francisco, CA 94124
(415) 715-4100

For more information on the cleanup program at Hunters Point Shipyard, please contact Mr. Keith Forman, Base Realignment and Closure Environmental Coordinator and RAB Navy Co-chair.

NOTE: Hunters Point Shipyard RAB meeting minutes and agendas will continue to be available to the public at the Information Repositories (listed above) established for the Hunters Point Shipyard cleanup program. Documents are also available on the Navy's web page at <http://www.efds.w.navy.mil/Environmental/HuntersPoint.htm>

Agencies and Organizations Involved in the Environmental Cleanup Program

LIST OF CONTACTS FOR REGULATORS, NAVY, AND RAB CO-CHAIR			
Name/Title	Organization	Phone	E-mail
Ms. Marie Avery Base Closure Manager	Naval Facilities Engineering Command, Southwest Division	(619) 532-0949 Fax: (619) 532-0995	averyma@ efdswnavfac.navy.mil
Mr. Keith Forman BRAC Environmental Coordinator	Naval Facilities Engineering Command, Southwest Division	(619) 532-0913 (415) 515-6216 Fax: (619) 532-0995	formanks@ efdswnavfac.navy.mil
Mr. Dave DeMars Lead Remedial Project Mgr.	Naval Facilities Engineering Command, Southwest Division	(619) 532-0912 Fax: (619) 532-0995	demarsdb@ efdswnavfac.navy.mil
Ms. Claire Trombadore Project Manager for Parcels A, B, and D	U.S. Environmental Protection Agency	(415) 972-3013 Fax: (415) 947-3518	trombadore.claire@epa.gov
Mr. Michael Work Project Manager for Parcels C, E, and F	U.S. Environmental Protection Agency	(415) 972-3024 Fax: (415) 947-3518	work.michael@epa.gov
Mr. Chein Kao Project Manager	California Department of Toxic Substances Control	(510) 540-3822 Fax: (510) 849-5285	ckao@dtsc.ca.gov
Mr. Michael Rochette Project Manager	California Regional Water Quality Control Board	(510) 622-2411 Fax: (510) 622-2458	mbr@rb2.swrcb.ca.gov
Ms. Dorothy Peterson RAB Community Co-chair	Hunters Point Resident	(415) 648-0661	dotp@silcon.com
Ms. Caroline Washington RAB Community Co-chair	Hunters Point Resident	(415) 822-9392	none



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Hunters Point Shipyard Mailing List Update Form

To better serve the community regarding the Hunters Point Shipyard environmental cleanup program, we are continuing to update our mailing list. **Please complete the information form and return it as soon as possible.**

1. ☐ **YES**, Please add me to the mailing list. I would like to receive the following (please check all that apply):
 - a. ☐ fact sheets, proposed plans, and newsletters
 - b. ☐ monthly Restoration Advisory Board meeting agendas, minutes, and notices of upcoming meetings
2. ☐ I would prefer to receive the mailers by (please check one box and then complete all information in the mailing box to the right):
 - a. ☐ U.S. Mail
 - b. ☐ E-mail
3. ☐ **PLEASE DELETE ME FROM THE MAILING LIST.** I do **NOT** wish to receive Hunters Point Shipyard mail.
4. ☐ I have been receiving **EXTRA MAILINGS.** Please **provide the correct mailing information** in the box to the right.

Please return by U.S. Mail or FAX to: Navy CLEAN 3, CTO-007, Community Relations Office at (619) 687-8787.

Mailing Box—Please provide ALL information:

Name _____

Organization _____

Address _____

City _____

State _____ Zip _____

Area Code: _____ Telephone _____

FAX or alternate number: _____

E-mail: _____

Please indicate if you are interested in becoming a
Restoration Advisory Board Member: Yes No



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